

Math Sheet

Name _____ Score _____ / 14 Teacher _____ Date _____

Change of Base Formula

Use a calculator and the change-of-base formula. Round answers to the nearest hundredth.

1. Use a calculator. Round to the nearest hundredth.
 $\ln 149$

2. Use a calculator. Round to the nearest hundredth.
 $\log_{10} 27.4$

3. Use a calculator. Round to the nearest hundredth.
 $\log_{15} 29$

4. Use a calculator. Round to the nearest hundredth.
 $\ln 38.9$

5. Use a calculator. Round to the nearest hundredth.
 $\log_{10} 149$

6. Use a calculator. Round to the nearest hundredth.
 $\log_5 41.2$

7. Use a calculator. Round to the nearest hundredth.
 $\ln 45$

8. Use a calculator. Round to the nearest hundredth.
 $\log_{10} 25.3$

9. Use a calculator. Round to the nearest hundredth.
 $\log_{13} 96$

10. Use a calculator. Round to the nearest hundredth.
 $\ln 49.3$

11. Use a calculator. Round to the nearest hundredth.
 $\log_{10} 24$

12. Use a calculator. Round to the nearest hundredth.
 $\log_{15} 24.0$

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Change of Base Formula

Use a calculator and the change-of-base formula. Round answers to the nearest hundredth.

13. Use a calculator. Round to the nearest hundredth.

$$\ln 179$$

14. Use a calculator. Round to the nearest hundredth.

$$\log_{10} 40.5$$

Change of Base Formula

Answer Key

Use a calculator and the change-of-base formula. Round answers to the nearest hundredth.

1. Use a calculator. Round to the nearest hundredth.

$$\ln 149$$

Work:

$$\ln 149 \approx 5.00$$

2. Use a calculator. Round to the nearest hundredth.

$$\log_{10} 27.4$$

Work:

$$\log_{10} 27.4 = \frac{\ln 27.4}{\ln 10}$$

$$\log_{10} 27.4 \approx 1.44$$

3. Use a calculator. Round to the nearest hundredth.

$$\log_{15} 29$$

Work:

$$\log_{15} 29 = \frac{\ln 29}{\ln 15}$$

$$\log_{15} 29 \approx 1.24$$

4. Use a calculator. Round to the nearest hundredth.

$$\ln 38.9$$

Work:

$$\ln 38.9 \approx 3.66$$

5. Use a calculator. Round to the nearest hundredth.

$$\log_{10} 149$$

Work:

$$\log_{10} 149 = \frac{\ln 149}{\ln 10}$$

$$\log_{10} 149 \approx 2.17$$

6. Use a calculator. Round to the nearest hundredth.

$$\log_5 41.2$$

Work:

$$\log_5 41.2 = \frac{\ln 41.2}{\ln 5}$$

$$\log_5 41.2 \approx 2.31$$

7. Use a calculator. Round to the nearest hundredth.

$$\ln 45$$

Work:

$$\ln 45 \approx 3.81$$

8. Use a calculator. Round to the nearest hundredth.

$$\log_{10} 25.3$$

Work:

$$\log_{10} 25.3 = \frac{\ln 25.3}{\ln 10}$$

$$\log_{10} 25.3 \approx 1.40$$

9. Use a calculator. Round to the nearest hundredth.

$$\log_{13} 96$$

Work:

$$\log_{13} 96 = \frac{\ln 96}{\ln 13}$$

$$\log_{13} 96 \approx 1.78$$

10. Use a calculator. Round to the nearest hundredth.

$$\ln 49.3$$

Work:

$$\ln 49.3 \approx 3.90$$

11. Use a calculator. Round to the nearest hundredth.

$$\log_{10} 24$$

Work:

$$\log_{10} 24 = \frac{\ln 24}{\ln 10}$$

$$\log_{10} 24 \approx 1.38$$

12. Use a calculator. Round to the nearest hundredth.

$$\log_{15} 24.0$$

Work:

$$\log_{15} 24.0 = \frac{\ln 24.0}{\ln 15}$$

$$\log_{15} 24.0 \approx 1.17$$

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Answer Key

Use a calculator and the change-of-base formula. Round answers to the nearest hundredth.

- 13.** Use a calculator. Round to the nearest hundredth.

$$\ln 179$$

Work:

$$\ln 179 \approx 5.19$$

- 14.** Use a calculator. Round to the nearest hundredth.

$$\log_{10} 40.5$$

Work:

$$\log_{10} 40.5 = \frac{\ln 40.5}{\ln 10}$$

$$\log_{10} 40.5 \approx 1.61$$